

**REMARKS/ARGUMENTS**

**Double Patenting**

Claims 1-22 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10711294. Applicant has included a terminal disclaimer in compliance with 37 CFR 1.321(c) to overcome the provisional rejection as the conflicting claims have not in fact been patented.

10 **Claims 1-3, 5 are rejected under 35 U.S.C 102(e) as being anticipated by Hauptmann et al [US 6,947,478].**

In this response, applicant respectfully requests reconsideration and allowance of claim 1 as being patentable over Hauptmann et al.

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**Claim 1 recites:**

An echo cancellation device for use in a full duplex communication system, wherein the full duplex communication system comprises a transmitter for transmitting a transmit signal and a receiver for receiving a receive signal, the echo cancellation device comprising:

**a filter for outputting a filtering signal according to the transmit signal;**

an echo cancellation circuit electrically coupled to the filter for outputting an echo cancellation signal according to the filtering signal; and

at least an echo cancellation resistor electrically coupled to the transmitter, the receiver, and the echo cancellation circuit;

**wherein the filter has a transfer function, and the transfer function is corresponding to a parasitic capacitance.**

*(Emphasis added)*

With regards to claim 1 as a whole, applicant asserts that claim 1 is patentable over Hauptmann et al. because Hauptmann et al. at least fail to utilize the features of **“wherein the filter includes a transfer function, and the transfer function is corresponding to a parasitic capacitance”** in a echo cancellation device.

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Please first refer to column 3, lines 3-34 of Hauptmann et al., which introduce the transfer function of the active analog echo filter 5 and an embodiment of active analog echo filter 5 as shown in Fig. 2. From this paragraph, it is clearly realized that, either first order transfer function or second order transfer function, all of the parameters in the transfer function can be designed by those of **given devices** (R1, R2, R3, R4...C1, C2,C3, and C4...etc.). But Hauptmann et al. are still fail to teach or imply that the design of transfer function takes the **parasitic effect** in to consideration as the claimed feature **“wherein the filter includes a transfer function, and the transfer function is corresponding to a parasitic capacitance”**. And it is also not obvious to the person of ordinarily skill in the relevant art at the time the invention was made after reviewing the disclosure of Hauptmann et al. Therefore, applicant believes that claim 1 is patentable over Hauptmann et al. after such amendment, and other cited references. Other dependent claims incorporated to claim 1 should be allowable if finally claim 1 is found allowable.

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On the other hands, claim 10 has also been amended in this response. With the same reason as aforementioned, applicant respectfully request reconsideration and allowance of the claim 10 as being patentable over Hauptmann et al. and other cited reference. Other dependent claims incorporated to claim 10 should be allowable if finally claim 10 is found allowable.

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For at least the above-mentioned reasons, reconsideration of pending claims 1-22 is respectfully requested.

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Appl. No. 10/709,935  
Amdt. dated June 29, 2007  
Reply to Office action of April 05, 2007

Sincerely yours,



Date: 06/29/2007

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10 Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)